

Oxford Polymers 10GF 10% Glass Fiber Filled Polycarbonate for Injection Molding

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

10% Glass Fiber Filled Polycarbonate for Injection Molding Information provided by Oxford Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-10GF-10-Glass-Fiber-Filled-Polycarbonate-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Filler Content	10 %	10 %	
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Compressive Strength	96.5 MPa	14000 psi	ASTM D695
Izod Impact, Notched	1.23 J/cm @Temperature 23.0 °C	2.30 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	146 °C	295 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	288 °C	550 °F	
Back Pressure	89.6 MPa	13000 psi	Mold pressure

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